

Claims

1. An imaging system, comprising:
an interlaced imaging device;
a mirrored shaft that is axially displaceable for presenting different views to said imaging device;
5 drive means including an electric motor for reciprocatingly displacing said mirrored shaft to change the view presented to said imaging device; and
 control means for controlling said electric motor in response to a data acquisition control signal of the imaging device such that interlaced video data produced by said imaging device includes data pertaining to two or more
10 different views.

2. The imaging system of Claim 1, wherein said data acquisition control signal is a vertical synchronization control signal that coordinates readout of said video data.

3. The imaging system of Claim 2, wherein said mirrored shaft includes first and second axially separated mirrors that are alternately in position with respect to said imaging device during successive data acquisition periods of said imaging device.
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4. The imaging system of Claim 1, wherein said drive means includes a rotary cam mechanism driven by said electric motor and a connecting arm coupling said cam mechanism to said mirrored shaft.

5. The imaging system of Claim 4, wherein said control means continuously drives said electric motor at a speed that is in synchronism with said data acquisition control signal.